Lesson 2.6

October 29, 2013

WarmUp

Find the quotient.

5.
$$56 \div 8 =$$

6.
$$99 \div 11 =$$

5.
$$56 \div 8 =$$
 _____ **6.** $99 \div 11 =$ _____ **7.** $132 \div 6 =$ _____

9.
$$\frac{88}{4} =$$

10.
$$\frac{156}{3} =$$

9.
$$\frac{88}{4} =$$
 10. $\frac{156}{3} =$ 11. $\frac{430}{86} =$

Lesson 2.6 October 29, 2013

EssentialQuestion

How can you use base-ten blocks to model decimal division?

Lesson 2.6 October 29, 2013

LessonTarget

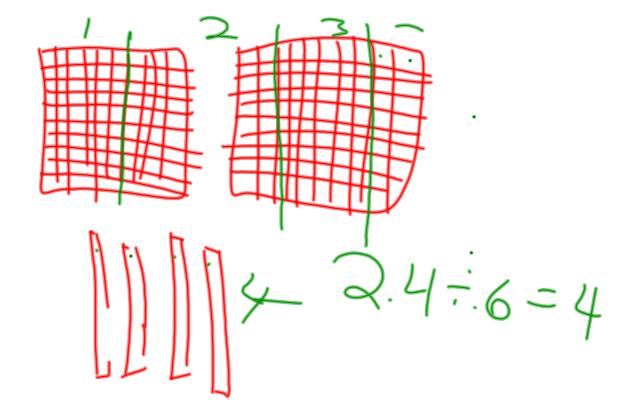
To be able to:

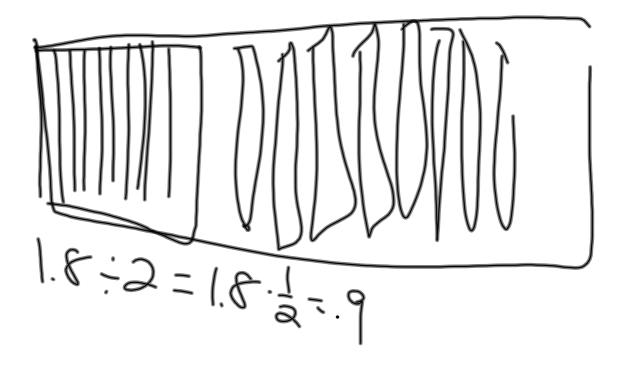
 use base-ten blocks and a formal rule to divide decimals.

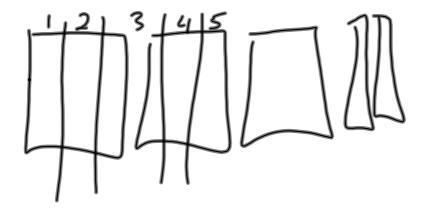
Self-EvaluationRubric

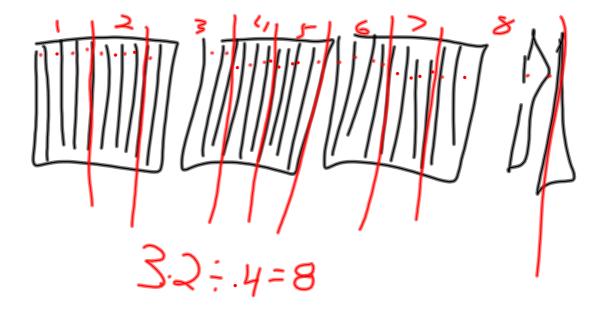
Score	Description
4	I can teach other students how to use base-ten blocks and a formal rule to divide decimals
3	I can use base-ten blocks and a formal rule to divide decimals
2	I recognize how to use base-ten blocks and a formal rule to divide decimals.
1	I do not know how to use base-ten blocks and a formal rule to divide decimals.

Base-TenBlocks





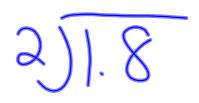




$$2.4 \div .6 = 4$$

 $3.2 \div .4 = 8$

1510 10000 H 10000 W 10000 W 138 4)38



Activities 1&2

With a partner, complete
Acvity 1 & 2 on pages 51 - 53
in your Big Ideas Record and
Pracce Journal.



Dividing Decimals by Whole Numbers

Words Place the decimal point in the quotient above the decimal point in the dividend. Then divide as you would with whole numbers. Continue until there is no remainder.

Numbers 1.83
4)7.32

Place the decimal point in the quotient above the decimal point in the dividend.

1 Dividing Decimals by Whole Numbers

a. Find 7.6 ÷ 4.

Estimate $8 \div 4 = 2$

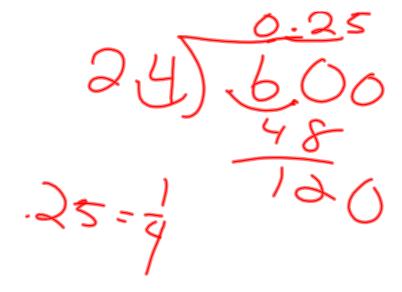
$$\begin{array}{r}
1,9 \\
4)76 \\
-4 \\
\hline
36 \\
-36 \\
\hline
0
\end{array}$$

Place the decimal point in the quotient above the decimal point in the dividend.

So, $7.6 \div 4 = 1.9$.

Reasonable? $1.9 \approx 2$

$$9 - 8 = 1$$
 $9 - 8 = 1$
 $8 - 9 = -1$
 $6 = 24 = 6$
 $6 = 24 = 4$



$$4 = 24 \div 6 = 2.4 \div .6$$

$$240 \div 60 = 4.24 \div .06$$

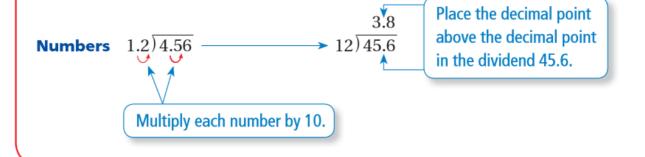
TryIt!

Try numbers 4 - 6 on page 94 of your Big Ideas Text Book.



Dividing Decimals by Decimals

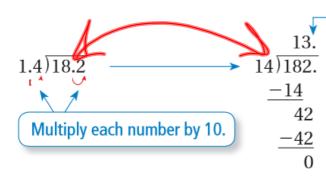
Words Multiply the divisor *and* the dividend by a power of 10 to make the divisor a whole number. Then place the decimal point in the quotient and divide as you would with whole numbers. Continue until there is no remainder.



$$10^{3} = 10$$
 $10^{3} = 100$
 2
 $10^{3} = 1000$
 3

2 Dividing Decimals

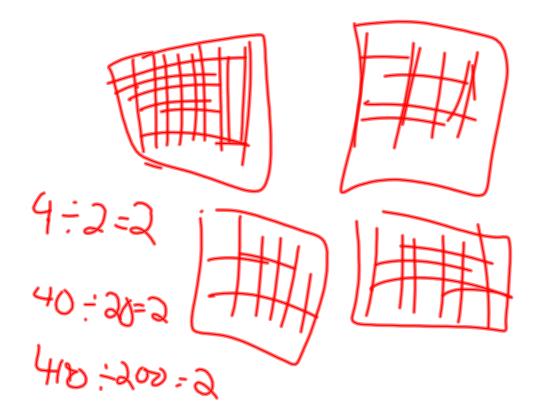
a. Find 18.2 ÷ 1.4.



Place the decimal point above the decimal point in the dividend 182.

- So, $18.2 \div 1.4 = 13$.
- **Check** $13 \times 1.4 = 18.2$

140/182

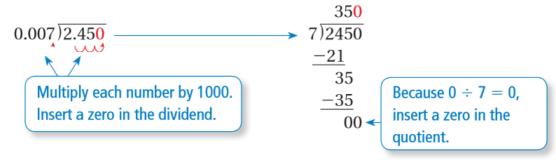


TryIt!

Try numbers 9 & 10 on page 95 of your Big Ideas Text Book.

3 Inserting Zeros in the Dividend and the Quotient

Divide $2.45 \div 0.007$.



So, $2.45 \div 0.007 = 350$.

TryIt!

Try numbers 13 & 14 on page 96 of your Big Ideas Text Book.

Assignment

Do numbers:

13, 15, 20, 27, 30, 33, 36, 43, 48, 50, 52

on pages 97 & 98 of your Big Ideas Text Book.

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EssentialQuestion

How can you use base-ten blocks to model decimal division?

Lesson 2.6 October 29, 2013

LessonTarget

To be able to:

 use base-ten blocks and a formal rule to divide decimals.

Self-EvaluationRubric

Score	Description
4	I can teach other students how to use base-ten blocks and a formal rule to divide decimals
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Homework

Big Ideas Record and Pracce Journal Page 54